

EXPLANATION OF CHANGES IN UNDERLYING CONSTRUCTION PERMIT  
EXHIBITS

Permit File No. : BPEDT-980219KE

This document is to explain changes in the underlying construction permit application exhibits for construction permit BPEDT-980219KE, specifically relating to Exhibits VD-2C and VD-3 of the application.

Exhibit VD-2C of the application showed the transmission system producing a maximum ERP of 19.88 dBK. This was accomplished by the following:

Transmitter Power	6.99 dBk (5000 watts)
Line loss (6 1/8")	-1.233 dB
V/U coupler loss	-0.1 dB
Antenna Gain	14.21 dB (11.90 dB Main Lobe Gain + 2.3 dB Az. Gain)
<b>Maximum ERP</b>	<b>19.88 dBK</b>

Exhibit VD-3 of the application showed the elevation pattern with a main lobe gain of 11.90 dB. The measured gain from the manufacturer turned out to be 11.46 dB as shown in present exhibit II-AI. Tower structural analysis determined that a 4 1/16" transmission line would need to be used instead of the 6 1/8" line originally planned for. These factors required an increase in transmitter power to obtain the required ERP. The changes are shown as follows:

Transmitter Power	<b>7.80 dBk (6025 watts)</b>
Line loss (4 1/16")	<b>-1.58 dB</b>
V/U coupler loss	-0.1 dB
Antenna Gain	<b>13.76 dB (11.46 dB Main Lobe Gain + 2.3 dB Az. Gain)</b>
<b>Maximum ERP</b>	<b>19.88 dBK</b>

To reiterate, the current facility is transmitting at the authorized ERP. The transmitter output was increased to compensate for greater line loss and lower antenna gain.

**EXHIBIT II-A**